O I P C INFORMA

JUL 1 4 2004

Substitute for form 1449A/PTO

INFORMATION-DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

3

Sheet 1 of

Complete if Known				
Application Number	09/597,861			
Filing Date	June 20, 2000			
First Named Inventor	Maya Rani Gupta			
Art Unit	2624			
Examiner Name	Tommy D. Lee			
Attorney Docket Number	74451P116			

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Document Number Number - Kind Code ² (if known)	Publication Date Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		US-				
		US-				
		US-				
· · · · · · · · · · · · · · · · · · ·		US-			RECEIVED	
		US-				
		US-			JUL 1 6 2004	
		US-				
		US-		T	echnology Center 260	
		US-			0,	
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				

	FOREIGN PATENT DOCUMENTS							
Examiner Cit		Cite Foreign Patent Document			Pages, Columns, Lines,	т•		
	No.1	Country Code' - Number' - Kind Code' (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	٦		
						_		
	-							
						H		
						_		
	l							

Examiner		Date	
4		Daile	
Signature	INO La	Considered 5/26/05	
l organica c		Considered G(2010	
ببرين والمناسسات			_

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 'Enter Office that issued the document, by the two-tetter code (WIPO Standard ST.3). 'For Japanese patent documents, the Indication of the year of reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 'Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 08/11/2003.



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 2 of 3

Co	<u> </u>	
Application Number	09/597.861	1
Filing Date	June 20, 2000	1
First Named Inventor	Maya Rani GuptaREC	コンドフ
Art Unit	2624	
Examiner Name		6 2004
Attorney Docket Number	74451P116	0 2004

		NON PATENT LITERATURE DOCUMENTS TEC	hnology	Center 260
xaminer Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (bool magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and country where published.		
TOL		BREAUX, Nancy A. and CHU, Chee-Hung Henry, "Wavelet Methods for Compression Rendering, and Descreening in Digital Halftoning," Proceedings SPIE - The Internation Society for Optical Engineering, vol. 3078, April 22-24, 1997, pp. 656-667	al	
7		PAPPAS, Thrasyvoulos N. and NEUHOFF, David L., "Least-Squares Model-Based Halftoning," IEEE Transactions on Image Processing, vol. 8, no. 8, August 1999, pp 110 1116)2 -	
		ZAKHOR, Avideh et al., "A New Class of B/W and Color Halftoning Algorithms," Department of Electrical Engineering and Computer Sciences, University of California, Berkeley, IEEE, CH2977-7/91/0000-2801, 1991, pp. 2801-2804		
		NEUHOFF, David L. and PAPPAS, Thrasyvoulos N., "Perceptual Coding of Images for Halftone Display," IEEE, CH2977-7/91/0000-2797, 1991, pp. 2797-2800	•	
		GENTILE, Ronald S. et al., "Quantization and Multilevel Halftoning of Color Images for Near-Original Image Quality," J. Optical Society of America A, vol. 7, no. 6, June 1990 0740-3232/90/061019-08, pp. 1019-1026		
		OSTROMOUKHOV, V. and HERSCH, R.D., "Structure Artifact Free Multi-Level Erro Diffusion Algorithm," SPIE, vol 3409, May 18-20, 1998, Zurich, pp. 215-220	r	
		http://mathworld.wolfram.com/VectorNorm.html, July 12, 2004 (2 pages)		

			
Examiner		iDate I /	/
			105
Signature	La Company	Considered 3/26	100
	James -		•

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

^{&#}x27;Applicant's unique citation designation number. 'Applicant is to place a check mark here if English language Translation is attached.



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet of 3 3

Complete if Known					
Application Number 09/597.861					
Filing Date	June 20, 2000				
First Named Inventor	Maya Rani Gupta				
Art Unit	2624				
Examiner Name	Tommy D. Lee				
Attorney Docket Number	74451P116				

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T'
		http://planetmath.org/encyclopedia/Bounded Function.html, July 12, 2004 (2 pages)	
100			
		RECEIVE	D
		JUL 1 6 2004	_
		Technology Center 2	260
-			

Examiner Signature	Date Considered	5/26/05
--------------------	--------------------	---------

Based on PTO/SB/088 (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wir) 08/11/2003. Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

^{&#}x27;Applicant's unique citation designation number. 'Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

2

of

Complete if Known					
Application Number 09/597,861					
Filing Date	June 20, 2000				
First Named Inventor	Maya Rani Gupta				
Art Unit	2624				
Examiner Name	Tommy D. Lee				
Attorney Docket Number	74451P116				

SEP 2 3 20	K Sile	et	l of	2	Attorney Docket Number 744	51P116
	Ä			U.S. PATEN	T DOCUMENTS	
SP 2 3 20	proaminer Initials	Cite No.1	Document Number Number - Kind Code ² (if known)	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
			US-			
			US-			
			US-			
			US-			
			US-			
			US-		,	
			US-			
			US-			
			US-			
			US-			
			US-			
			US-			
			US-			
			US-			
			US-			
			US-			
			US-			
			US-			
			US-			
			US-			

FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Cite No.'	Foreign Patent Document			Pages, Columns, Lines,				
		Country Code ³ - Number ⁴ - Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Where Relevant Passages or Retevant Figures Appear	T*			
	<u> </u>								
						-			
	<u> </u>								
-									

Examiner Signature Date Considered 5/26/05

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

'Applicant's unique citation designation number (optional). "See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. "Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). "For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. "Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. "Applicant is to place a check mark here if English tanguage Translation is attached."

Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wtr) 08/11/2003.



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 2 of 2

Co	emplete if Known
Application Number	09/597,861
Filing Date	June 20, 2000
First Named Inventor	Maya Rani Gupta
Art Unit	2624
Examiner Name	Tommy D. Lee
Attorney Docket Number	74451P116

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. FLOYD, ROBERT ET AL., ""4.3: An Adaptive Algorithm for Spatial Grey Scale," SID 75 Digest, pp. 36-37, Stanford University, Stanford, CA, U.S.A. OSTROMOUKHOV, V. ET AL., "Structure Artifact Free Multi-Level Error Diffusion Algorithm," Electronic Imaging: Processing, Printing, and Publishing in Color, May 1988,					
TOL	A						
	В						
		pp. 215-219, SPIE Vol. 3409, The International Society for Optical Engineering, Zurich, Switzerland.					
	С	AKARUN, LALE ET AL., "New Methods for Dithering of Color Images," pp. 523-526, Istanbul, Turkey.					
	D	BREAUX, NANCY A., "Wavelet Methods for Compression, Rendering, and Descreening in Digital Halftoning, Wavelet Applications IV, 22-24 April 1997, pp. 656-667. SPIE Vol.					
		The International Socieity for Optical Engineering, Orlando, Florida, U.S.A.					
	Е	WONG, PING WAH, "Halftoning by Multiscale Dot Distribution," 1995, 0-8186-7310-9/95, IEEE, Palo Alto, CA, U.S.A.					
	F	WONG, PING WAH, "Mean Matching Halftoning on a Rotated Quad-Tree Structure," Human Vision and Electronic Imaging, 29 January - 1 February 1996, pp. 448-455, SPIE					
		Vol. 2657, The International Society for Optical Engineering, San Jose, CA, U.S.A.					
TOL	G	NILSSON, FREDRIK, "Objective Quality Measures for Halftoned Images, J. Opt. Soc. Am. A, 1999, pp. 2151-2162, Vol. 16, No. 9, Optical Society of America, U.S.A.					
	į						

Page 1				
Examiner		Date	Soulse	
Signature	In	Considered	3/26/03	

*Examiner: initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

'Applicant's unique citation designation number. 'Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08B (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wir) 08/11/2003. Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450